Title (en)

LIGHT FILTERING CONTACT LENS

Title (de)

LICHT FILTRIERENDE KONTAKTLINSE

Title (fr)

LENTILLE DE CONTACT PHOTOFILTRANTE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO9844380A1] The invention relates to a light-absorbing contact lens (20) and process for preparing same. A contact lens (20) is tinted with colorants which provide desired spectral transmittance characteristics over the tinted portion (24) of the lens (20). The contact lens (20) provides transmittance of incident radiation having a wavelength from 500 to 700 nm which is variable and wavelength-dependent. The lens (20) also preferably filters out UV and blue light (wavelengths from 200 to about 500 nm). Various transmittance patterns for wavelengths from 500 to 700 nm are obtainable by appropriate choice of colorant combinations. The transmittance curve in this region and the colorants to achieve the desired transmittance characteristics are chosen to fill particular needs of the wearer; for example, limiting the transmittance of visible light in high intensity light environments. Lenses (20) according to the invention may provide unique benefits for use with particular applications such as sporting or recreational activities. Hard and soft contact lenses are shown as well as examples of specialized lenses for particular applications.

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